CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,

Date: 27-05-2019

ASSISTANT EXECUTIVE ENGINEER

VIDYARANYAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/S. Civil Pro Services for the work of IMPROVEMENTS TO RAMACHANDRAPURA AND DODDABOMMASANDRA GOVT SCHOOL IN WARD NO.10(DODDABOMMASANDRA), VIDYARANYAPURA SUB DIVISION.

Ref: 1. Work Order No: BBMP/EE/BTP/WO/173/2017-18

2. Job code: 010-17-000021

We are herewith forwarding to Sri.Subbareddy K.V, #106/B, Aswathnagara, RMV IInd Stage, Bangalore-94. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.21,35,370/- (Rs. Twenty One Lakhs Thirty Five Thousand Three Hundred and Seventy Only).

Thanking you,

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Sweetha.NK
AE W10

Yours faithfully,

For Civil Pro

CIVIL PRO BANGALORE Sig..... Date.....

R. KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-05-28-77** **Date: 21-03-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.
Agency	:	Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-03-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Page 1/1

**** End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-05-28-77** **Date: 16-04-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.
Agency	:	Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	19-03-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm2	Not less than 53 N/mm^2

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Sumithra N K
AE W10

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Vidyaranyapura Sub Division
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-05-28-77** **Date: 21-03-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.
Agency	:	Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-03-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-03-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

Sweetha.N.R
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-05-28-77** **Date: 21-03-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Sweetha .N.L
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-05-28-77** **Date: 20-03-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.
Agency	:	Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.
Customer Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-03-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	–

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BBMP, Bangalore - 97

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-05-28-77** **Date: 20-03-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Sweetha NK
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Assistant Executive Engineer
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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-05-28-77** **Date: 20-03-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 18-03-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	188	220	22.0	78.0	60-95	75-100	85-100	95-100
4	1.18 mm	195	415	41.5	58.5	30-70	55-90	75-100	90-100
5	600 micron	219	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	193	827	82.7	17.3	5-20	8-30	12-40	15-50
7	150 micron	121	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-05-28-77** **Date: 20-03-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.87	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	4.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2019-05-28-77** **Date: 04-04-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 03-04-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Suvetha, NK
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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-05-28-77** **Date: 15/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RMC	M20	08/04/2019	15/04/2019	150.50 X 151.36 X 151.59	22778	**8.020**	425.7	18.7	18.5
2	RMC	M20	08/04/2019	15/04/2019	149.65 X 149.92 X 149.55	22436	**8.638**	417.3	18.6	
3	RMC	M20	08/04/2019	15/04/2019	150.17 X 149.38 X 150.07	22432	**8.528**	407.1	18.1	

Note:

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Smitha NK
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-05-28-77** **Date: 06/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	08/04/2019	06/05/2019	151.95 X 151.81 X 150.35	23069	**8.735**	546.8	23.7	23.2
2	RMC	M20	08/04/2019	06/05/2019	149.23 X 151.66 X 149.27	22632	**8.740**	505.8	22.3	
3	RMC	M20	08/04/2019	06/05/2019	149.78 X 149.33 X 149.70	22367	**8.908**	527.8	23.6	

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Suvitha M K
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-05-28-77** **Date: 15/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	08/04/2019	15/04/2019	151.18 X 150.39 X 151.38	22736	**8.020**	425.3	18.7	18.7
2	RMC	M20	08/04/2019	15/04/2019	149.23 X 149.09 X 150.12	22249	**8.638**	420.8	18.9	
3	RMC	M20	08/04/2019	15/04/2019	151.58 X 149.32 X 149.78	22635	**8.528**	421.6	18.6	

Note:

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R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-05-28-77** **Date: 06/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	08/04/2019	06/05/2019	150.67 X 151.83 X 151.17	22877	**8.735**	537.9	23.5	23.0
2	RMC	M20	08/04/2019	06/05/2019	150.20 X 149.42 X 150.32	22444	**8.740**	499.4	22.2	
3	RMC	M20	08/04/2019	06/05/2019	151.69 X 150.12 X 149.94	22771	**8.908**	528.4	23.2	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-05-28-77** **Date: 15/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	08/04/2019	15/04/2019	149.16 X 150.62 X 149.24	22467	**8.020**	413.3	18.4	18.6
2	RMC	M20	08/04/2019	15/04/2019	149.14 X 151.72 X 150.45	22627	**8.638**	428.2	18.9	
3	RMC	M20	08/04/2019	15/04/2019	151.32 X 149.87 X 150.61	22679	**8.528**	418.4	18.4	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	08/04/2019	06/05/2019	150.63 X 151.44 X 150.24	22811	**8.735**	540.5	23.7	23.5
2	RMC	M20	08/04/2019	06/05/2019	151.03 X 150.75 X 149.51	22769	**8.740**	521.8	22.9	
3	RMC	M20	08/04/2019	06/05/2019	151.42 X 151.63 X 150.71	22960	**8.908**	545.9	23.8	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	08/04/2019	15/04/2019	151.57 X 151.64 X 151.54	22984	**8.020**	422.1	18.4	18.5
2	RMC	M20	08/04/2019	15/04/2019	150.27 X 151.66 X 149.26	22790	**8.638**	423.2	18.6	
3	RMC	M20	08/04/2019	15/04/2019	150.53 X 150.85 X 151.65	22707	**8.528**	419.9	18.5	

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Lab ID : **CP-2019-05-28-77**

Date: 06/05/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.

Agency : Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	08/04/2019	06/05/2019	151.11 X 151.53 X 151.83	22898	**8.735**	545.1	23.8	23.2
2	RMC	M20	08/04/2019	06/05/2019	150.50 X 150.39 X 150.91	22633	**8.740**	500.0	22.1	
3	RMC	M20	08/04/2019	06/05/2019	151.65 X 150.73 X 149.60	22858	**8.908**	539.1	23.6	

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-05-28-77** **Date: 29-03-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No.10(Doddabommasandra),Vidyaranyapura Sub Division.
Agency	:	Sri.Subbareddy K.V, #106/B,Aswathnagara RMV IInd Stage, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-19
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-03-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	201	12201	31.983	2621.3	2691.6	Not less than 1800Kg/m^3
2	399	152	200	12130	32.921	2714.1		
3	405	151	201	12292	33.674	2739.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2019-05-28-77**

Date: 29-03-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	151	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	152	201	
3	403	150	203	
4	404	152	199	
5	403	151	203	
6	402	150	201	
7	403	152	203	
8	403	151	203	
9	401	150	200	
10	402	152	199	
11	402	151	199	
12	400	152	199	
13	402	151	200	
14	401	150	202	
15	402	151	202	
16	404	150	201	
17	403	152	199	
18	400	153	201	
19	404	154	199	
20	403	152	200	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2019-05-28-77** **Date: 29-03-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	399	151	60283	346.8	5.8	5.6
2	400	152	60831	330.8	5.4	
3	403	150	60388	340.2	5.6	
4	404	152	61398	364.2	5.9	
5	403	151	60886	330.8	5.4	
6	402	150	60305	340.8	5.7	
7	403	152	61283	320.6	5.2	
8	403	151	60882	328.6	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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